

3.3 Scope of delivery



NOTE

The scope of delivery depends of the configuration of the purchase order.

Accessories are delivered as per the purchase order, order confirmation, and delivery note.

3.4 Technical data

3.4.1 Rotavapor® R-100

Rotavapor® R-100	
Dimensions (W x D x H) (w/o condenser and heating bath)	480 x 502 x 626 mm
Dimension (W x D x H) (inc. condenser and heating bath)	617 x 502 x 898 mm
Weight (depending on glassware included)	18 – 19 kg
Power consumption	30 W
Immersion angle	0 – 35°
Rotation speed range	20 – 280 rpm
Max. flask capacity	3 kg
Ingress protection rating	IP21
Approval	CE
Frequency	50/60 Hz
Voltage	24 V DC
Adjustable height	145 mm (+ 115 mm optional extension)
Flask size	50 – 4000 mL

3.4.2 Heating bath B-100

Dimensions (W x H x D)	285 x 219 x 326 mm
Weight	3.9 kg
Voltage	100 – 120 V/220 – 240 V
Frequency	50 – 60 Hz
Power consumption	1700 W
Heater output	1300 W
Enclosure rating	IP20
Fuse	T 12.5 A L 250 V (100 – 120 V) T 6.3 A L 250 V (220 – 240 V)
Temperature range	20 – 95 °C
Max. flask size	4000 mL
Adjustment accuracy	± 1 %
Bath capacity	4 L
High temperature cut-out	> 145 °C

Approval	CE
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3.4.3 Ambient conditions

Max. altitude above sea level	2000 m
Ambient temperature	5 - 40°C
Maximum relative humidity	80% for temperatures up to 31°C decreasing linearly to 50% at 40°C

The laboratory apparatus described here may only be used indoors.

3.4.4 Materials

Component	Material
Rotavapor housing	Anodized aluminium with powder coating
Heating bath housing	PBT, partially glass-fiber reinforced
Heating bath	Stainless steel 1.4404, glass-peened
Safety guard	Polycarbonate
Guard ring (of safety guard)	PBT, partially glass-fiber reinforced
Rotary drive unit	Stainless steel 1.4305
Flange connection to condenser	Aluminium
Seal	NBR, PTFE

3.5 Safety features

3.5.1 Overheat cut-out

To protect against overheating, the heating bath has a thermostatic bath temperature control.

In addition it is fitted with an electronic and a mechanical overheat cut-out.

The electronic overheat cut-out monitors the temperature limit, the heating rate and the function of the temperature sensor. If the electronic overheat cut-out trips, the device should be inspected by a BUCHI service technician.

The mechanical overheat cut-out consists of a bi-metallic thermostat that immediately cuts off the power supply at high temperatures (above 145 °C). The mechanical overheat cut-out has to be manually reset once the heating bath has cooled down (see Chapter 8.2.1 "Resetting overheat safety cut-out", page 44).

3.5.2 Protection against electrical overload

The Heating Bath B-300 Base is fitted with a safety fuse.

The rotary drive unit has an electrical overload cut-out.

3.5.3 Clips and holders

- Combi-clip for fixing the evaporating flask and safe release of sticking ground-glass joints
- Ball joint clamps for securely fixing the receiving flask
- Laboratory stand and holder for fixing glass apparatus
- Cap nut for fixing the condenser